Amendment and Response Applicant: Mark Haines et al. Serial No.: 10/635,409

Filed: August 6, 2003 Docket No.: 200210234-1

Title: FILTER FOR PRINTHEAD ASSEMBLY

## IN THE CLAIMS

Please cancel claims 11, 33-35, and 37-40 without prejudice.

Please add claims 41-48.

Please amend claims 1, 6, 25, and 30 as follows:

(Currently Amended) A filter for a printhead assembly, the filter comprising:
 a frame having a first face and a second face opposite the first face, an opening
 communicated with the first face and the second face, and a fluid passage communicated with
 the opening formed therein;

filter material provided on each the first face and the second face of the frame and enclosing the opening and the fluid passage of the frame;

- a first fluid port communicated with the fluid passage of the frame;
- a permeable material provided in a fluid path of the first fluid port; and
- a second fluid port spaced from the first fluid port and communicated with the fluid passage of the frame.
- 2. (Original) The filter of claim 1, wherein the fluid passage of the frame is adapted to direct air from the first fluid port to the second fluid port.
- 3. (Original) The filter of claim 1, wherein the permeable material is adapted to allow air to pass therethrough before the permeable material is wetted by liquid ink and prevent air from passing therethrough when the permeable material is wetted by the liquid ink.
- 4. (Cancelled)
- (Previously Presented) A filter for a printhead assembly, the filter comprising:

   a frame having an opening and a fluid passage communicated with the opening formed therein;

filter material enclosing the opening and the fluid passage of the frame; a first fluid port communicated with the fluid passage of the frame; Amendment and Response
Applicant: Mark Haines et al.

Serial No.: 10/635,409 Filed: August 6, 2003 Docket No.: 200210234-1

Title: FILTER FOR PRINTHEAD ASSEMBLY

a permeable material communicated with the first fluid port; and

a second fluid port spaced from the first fluid port and communicated with the fluid passage of the frame,

wherein the permeable material includes a porous plug fitted within the first fluid port, wherein the porous plug is impregnated with a clogging agent.

6. (Currently Amended) A filter for a printhead assembly, the filter comprisings a frame having an opening and a fluid passage communicated with the opening formed therein:

filter material enclosing the opening and the fluid passage of the frame;

- a first fluid port communicated with the fluid passage of the frame;
- a permeable material communicated with the first fluid port; and
- a second fluid port spaced from the first fluid port and communicated with the fluid passage of the frame The filter of claim 1, wherein the permeable material includes a mesh material.
- 7. (Original) The filter of claim 1, wherein the filter material is secured to the frame around a perimeter of the opening.
- 8. (Original) The filter of claim 1, wherein the filter material has a mesh size in a range of approximately 2 microns to approximately 20 microns.
- 9. (Original) The filter of claim 1, wherein the filter material is adapted to allow liquid ink to pass therethrough, and wherein the filter material is adapted to prevent air from passing therethrough when the filter material is wetted by the liquid ink.
- 10. (Original) The filter of claim 9, wherein the filter material is adapted to allow air to pass therethrough before the filter material is wetted by the liquid ink.
- 11. (Cancelled)

Amendment and Response Applicant: Mark Haines et al. Serial No.: 10/635,409

Filed: August 6, 2003 Docket No.: 200210234-1

Title: FILTER FOR PRINTHEAD ASSEMBLY

12. (Original) The filter of claim 1, wherein the frame has a substantially rectangular shape, and wherein the first fluid port and the second fluid port extend from a side of the substantially rectangular shape.

## 13-24. (Cancelled)

- 25. (Currently Amended) A printhead assembly, comprising:
  - a carrier having a fluid manifold defined therein;
  - a printhead die mounted on the carrier and communicated with the fluid manifold; and
  - a fluid delivery assembly coupled with the carrier and including a filter including a

frame having a first face and a second face opposite the first face, an opening communicated with the first face and the second face, and a fluid passage communicated with the opening formed therein, filter material provided on each the first face and the second face of the frame and enclosing the opening and the fluid passage of the frame, first and second fluid ports communicated with the fluid passage, and a permeable material provided in a fluid path of the first fluid port,

wherein the second fluid port of the filter communicates with the fluid manifold of the carrier.

- 26. (Original) The printhead assembly of claim 25, wherein the fluid passage of the frame is adapted to direct air from the first fluid port to the second fluid port.
- 27. (Original) The printhead assembly of claim 25, wherein the permeable material of the filter is adapted to allow air to pass therethrough before the permeable material is wetted by liquid ink and prevent air from passing therethrough when the permeable material is wetted by the liquid ink.
- 28. (Cancelled)
- 29. (Previously Presented) A printhead assembly, comprising: a carrier having a fluid manifold defined therein;

Amendment and Response Applicant: Mark Haines et al.

Serial No.: 10/635,409 Filed: August 6, 2003 Docket No.: 200210234-1

Title: FILTER FOR PRINTHEAD ASSEMBLY

a printhead die mounted on the carrier and communicated with the fluid manifold; and a fluid delivery assembly coupled with the carrier and including a filter including a frame having an opening and a fluid passage communicated with the opening formed therein, filter material enclosing the opening and the fluid passage of the frame, first and second fluid ports communicated with the fluid passage, and a permeable material communicated with the first fluid port,

wherein the second fluid port of the filter communicates with the fluid manifold of the carrier.

wherein the permeable material of the filter includes a porous plug fitted within the first fluid port, wherein the porous plug is impregnated with a clogging agent.

- 30. (Currently Amended) A printhead assembly, comprisings a carrier having a fluid manifold defined therein;
- a printhead die mounted on the earrier and communicated with the fluid manifold; and a fluid delivery assembly coupled with the currier and including a filter including a frame having an opening and a fluid passage communicated with the opening formed therein, filter material enclosing the opening and the fluid passage of the frame, first and second fluid ports communicated with the fluid passage, and a permeable material communicated with the first fluid port,

wherein the second fluid port of the filter communicates with the fluid manifold of the earrier. The printhead assembly of claim 25, wherein the permeable material of the filter includes a mesh material.

- 31. (Original) The printhead assembly of claim 25, wherein the filter material of the filter is adapted to allow liquid ink to pass therethrough, and wherein the filter material of the filter is adapted to prevent air from passing therethrough when the filter material is wetted by the liquid ink.
- 32. (Original) The printhead assembly of claim 31, wherein the filter material of the filter is adapted to allow air to pass therethrough before the filter material is wetted by the liquid ink.

Amendment and Response Applicant: Mark Haines et al.

Serial No.: 10/635,409 Filed: August 6, 2003

Docket No.: 200210234-1

Title: FILTER FOR PRINTHEAD ASSEMBLY

33-35. (Cancelled)

36. (Cancelled)

37-40. (Cancelled)

- 41. (New) The filter of claim 1, wherein the fluid passage of the frame communicates with the opening and one of the first face and the second face of the frame.
- 42. (New) The filter of claim 1, wherein the first fluid port communicates with the fluid passage of the frame and externally of the frame.
- 43. (New) The filter of claim 1, wherein the second fluid port communicates with the fluid passage of the frame and externally of the frame.
- 44. (New) The filter of claim 1, wherein the permeable material includes a porous plug fitted within the first fluid port, wherein the porous plug is impregnated with a clogging agent.
- (New) The printhead assembly of claim 25, wherein the fluid passage of the frame of 45. the filter communicates with the opening and one of the first face and the second face of the frame of the filter.
- 46. (New) The printhead assembly of claim 25, wherein the first fluid port of the filter communicates with the fluid passage of the frame of the filter and externally of the frame of the filter.
- 47. (New) The printhead assembly of claim 25, wherein the second fluid port of the filter communicates with the fluid passage of the frame of the filter and externally of the frame of the filter.

Amendment and Response Applicant: Mark Haines et al. Serial No.: 10/635,409 Filed: August 6, 2003

Docket No.: 200210234-1

Title: FILTER FOR PRINTHEAD ASSEMBLY

48. (New) The printhead assembly of claim 25, wherein the permeable material of the filter includes a porous plug fitted within the first fluid port, wherein the porous plug is impregnated with a clogging agent.